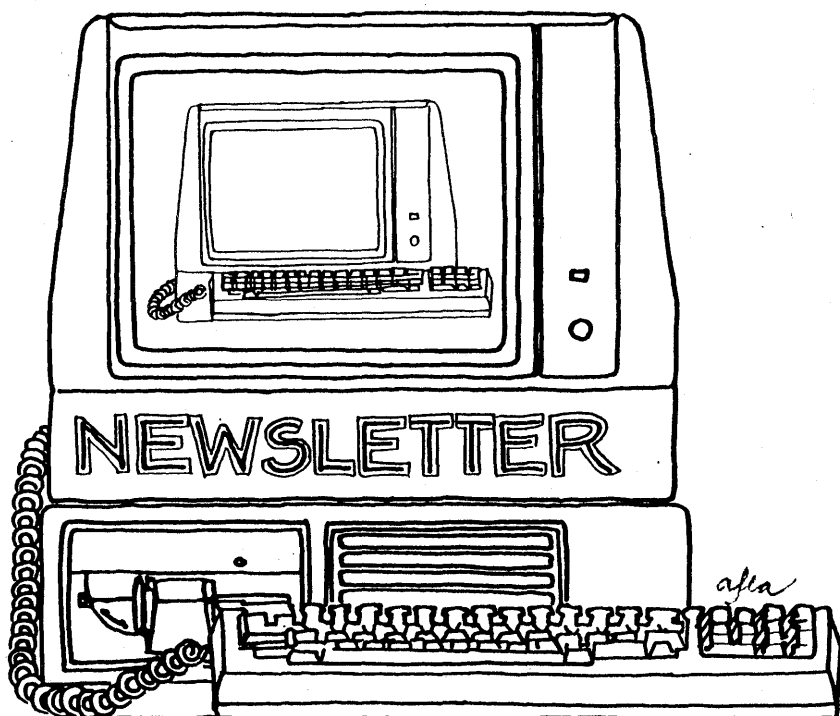


NOVEMBER 1983 ~ VOLUME I, ISSUE #7

BAY AREA MICRO DECISION USERS ASSOCIATION

BAM DUA



A MUTUAL SUPPORT NETWORK FOR USERS OF
MORROWS' MICRO DECISION COMPUTERS-
P.O. BOX 5152, BERKELEY, CA.94705
415 : 658-0152

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			Gemini 10X	325.
Ultra	SS/DD	22.95	Prowriter I	435.
Ultra	DS/DD	29.95	Prowriter II	699.
			Epson RX-80	425.
Elephant	SS/SD	22.95	Epson RX-80F/T	499.
Elephant	SS/DD	25.95	Epson FX-80	650.
Elephant	DS/DD	34.95	Okidata 92	535.
			Mannesman Tally	399.
Verbatim	SS/DD	24.95	Brother DX-15	545.
Verbatim	DS/DD	38.95	TTX	589.
Head Clean. Kit		11.95	Daisywriter	1295.
			NEC 3510	1515.
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Dysan	SS/DD	39.95		
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		RS-232	99.
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Disk Carring Case	3.49		

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#                                     #
#      BAY AREA MICRO DECISION USERS ASSOCIATION      #
#      A Morrow computer users' group                #
#                                     #
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Monthly newsletter, Vol. 1, issue 7, November 1983

BAMDUA, P.O. Box 5152, Berkeley, CA 94705
(415) 658-0152

BAMDUA, the Bay Area Micro Decision Users Association, is open to all who are interested in Morrow's Micro Decision computers. Membership fee is currently \$12 per year and includes a subscription to our monthly newsletter. For information, membership application forms, etc., please send a self-addressed stamped envelope to the BAMDUA P.O. Box.

BAMDUA meetings are held every last Tuesday of the month.

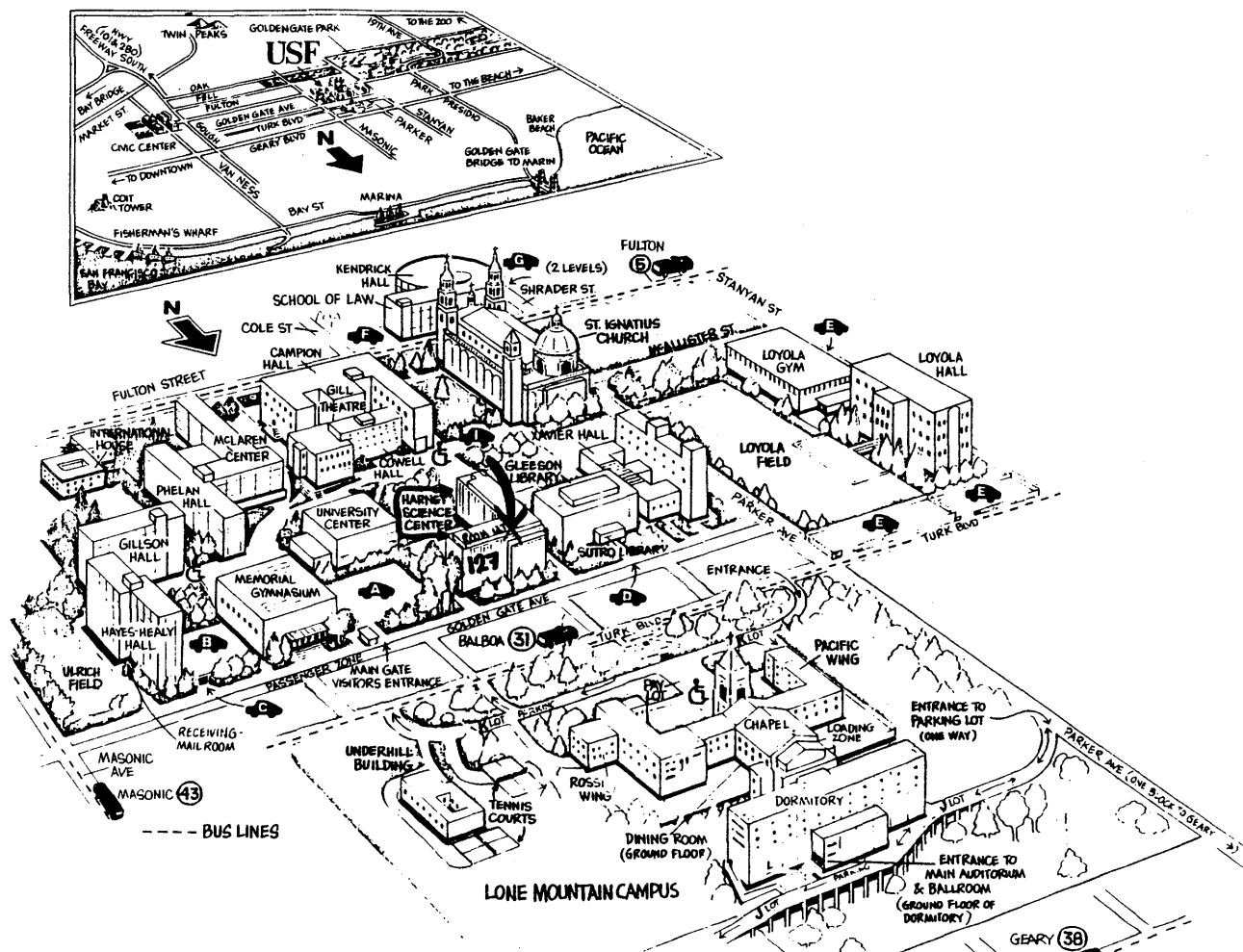
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+++ Next meeting: ++++++
+
+   WHEN:  Tuesday, 29th November 1983, 7:30 PM      +
+   WHERE: University of San Francisco                +
+           Harney Science Center, room 127           +
+           Golden Gate Ave, between Masonic and     +
+           Parker Ave, San Francisco                +
+   GUEST: George Woo : On WordStar's secret tricks  +
+
+
+++++
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The oblique map of the University of San Francisco printed on the next page will show you how to get there.

The first part of the meeting will deal with business items. Then our guest speaker will take the floor. Have your questions ready! During the last half hour, small interest groups will discuss issues of special interest. This is your chance to make valuable connections and share information person to person. Also during this period, Library diskettes will be sold (\$5 per volume, checks only please). Membership applications will be accepted.

Anyone interested in Morrow computers is welcome to the BAMDUA meeting. If you are new to the scene, seek out someone who looks like a BAMDUA member (90% of the meeting participants are) and ask him about our organization.

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CLASSIFIEDS are free to members till the end of the year.
Maximum 3 lines with name and phone number. Deadline for next
issue is December 8th, 1983. Write or call in: 658-0152.
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UP AND COMING

We try to get interesting guest speakers for each meeting. Can you help? If you know about a qualified speaker, call BAMDUA at 658-0152. We can't pay our speakers, but we give them lots of attention and a wonderful applause!



This is what is scheduled for the coming months:

- | | | | | |
|-----------|---|---------------|---|---|
| 29-Nov-83 | - | San Francisco | - | George Woo, SF State, on WordStar's secrets. |
| 27-Dec-83 | - | Berkeley | - | No speaker yet! |
| 31-Jan-84 | - | Berkeley | - | George Morrow (at last!)
This is a big meeting in an auditorium and is arranged in cooperation with another Morrow user group. |
| 28-Feb-84 | - | San Francisco | - | Lee Parks from Micro Pro International |

NOVICE EMERGENCY CLINIC

This is for the utterly frustrated novice user. If you are really hard up and need tutoring in a small (max 5 people) class call BAMDUA at (415) 658-0152 and try to get in the NOVICE EMERGENCY CLINIC.

It is a 2 hour evening class in Berkeley for \$10 per person and is a once-only arrangement. If you need more help, call again and get into another class. The classes are scheduled according to need.

The basic class-procedure is to deal with your most burning questions first, then to give you some fundamental tutoring in WordStar and CP/M. We also show you how to use some of the Public Domain Utilities. Most of the time is spent dealing with questions, mini-lectures and demonstrations.

The class will use an MD-2. Bring your MD-3 (without the terminal) if you have MD-3 specific problems and don't forget your software. Bring your problem manuals and a note book to jot down all the marvelous tricks you are going to learn.

GOOD NEWS ABOUT UNIFORM

If you don't know what all the excitement is about, read the previous newsletter (File Transfer Between Different Machines).

The deal with Micro Solutions in Illinois has been made. Delivery is scheduled for late November or early December '83. We had 23 applicants on the day that we placed the initial order. To get the best price break we ordered 25 copies of the programs and their little manuals.

In the mean time, more members are sending in reservation checks. We are already over 30. We'll adjust the order when Micro Solutions calls us to say they are ready to ship. Your deadline to be part of this deal is Thanksgiving.

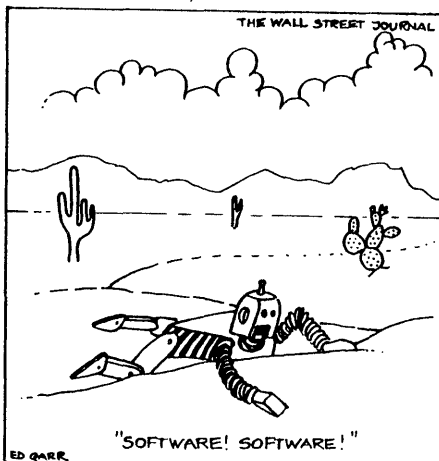
Below follows a list of machines that you will be able to communicate with from your MD-2 or MD-3. Please understand that this is a preliminary list, taken over the phone and liable to a few errors.

SINGLE SIDED DISKS

Osborne I
Kaypro II
TRS-80 I
TRS-80 III
Xerox 820 II
Super Brain 35 & 40
NEC PC 8001
Micro Decision 2
TI Professional
IBM PC CP/M-86
Access Matrix (Actrix)
Novo Max 80
Cromenco Intell. Trmnl.

DOUBLE SIDES DISKS

Televideo TVTS 802
Kaypro 4
Kaypro 10
HP-125
Data Video
Sanyo
Epson XS-10
Atrona Attache
NEC 8801
Super Brain Quad
Micro Decision 3
Zenith Z100
Cromenco CDOS & CP/M
IBM PC CP/M 86
IMS 5000



OTHER FORMATS: MSDOS
 PCDOS
 TRS-80 TRi (?)
 LDOS (SD)

As soon as their specs are in print, they will send us a xerox-copy and that will go to all of you who deposited the \$30 check. If per chance you missed out on the original frenzy, you can still join the fray. Mail a \$30 check to BAMDUA today! Be sure to write UNIFORM on the check or it will just be cashed, never to be heard of again...

Micro Solutions will call us 10 days before they ship. At that time, your checks will be cashed and we will send Micro Solutions One Big Check for the one and only order. Then we will wait. We should have our UNIFORM by early December.

THE BUSINESS COMPUTER NETWORK

We received the following letter from BCN (see newsletter volume 1, issue 6, October '83):

Dear Mr. Andreae:

Thank you for your letter of Oct. 7, advising of your interest in the Business Computer Network. With regard to BCN's support of Morrow Micro Decision Computers, this will be sometime in the future. Since we have developed the programming for the Kaypros, we have set the IBM PC as the next micro we will support; after that there will be several other micros before we get to the Morrow.

Your invitation to speak before your group is most appreciated, but I must advise you that we will not be able to participate at this time. The BCN system has been expanding extremely rapidly and we are quite short on people who can make such presentations.

If we may be of any other service, please advice.

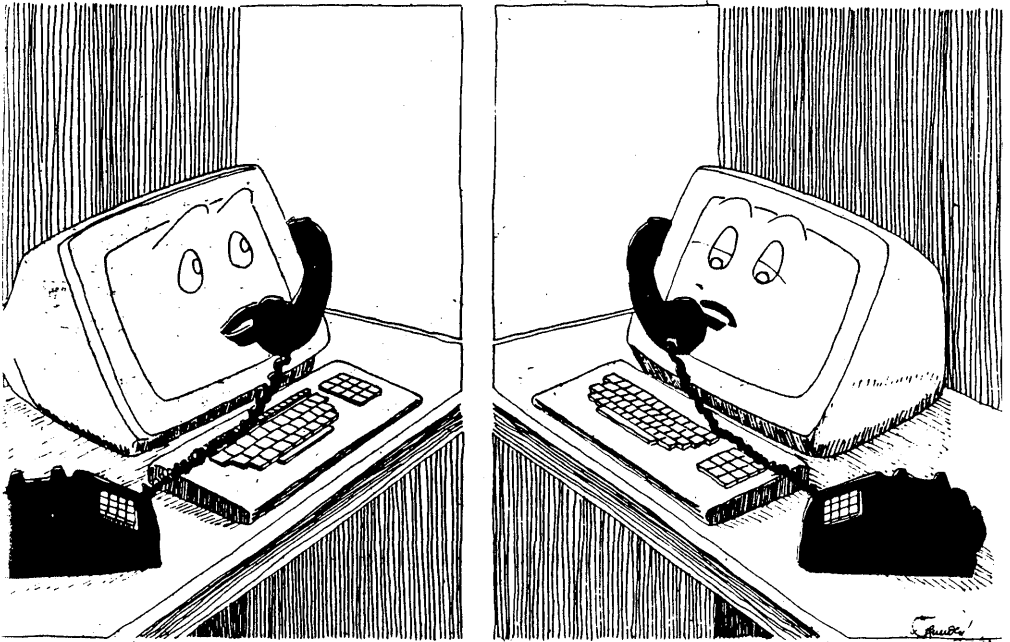
Sincerely,

Richard S. Kost
General manager BCN
100 College View Dr.
P.O. Box 36
Riverton, WY 82501

Let's Get on the Stick

O.K. folks, it's time to drop BCN a note if you feel Morrow should not come so far down the line. Let's see now, we have 230 members as of today, at two letters a week per member ...

BCN advertised in the Sept/Oct issue of PRO/FILES, the national newsletter for KAYPRO users. They included a floppy disk and a sub-manual with their ad, which also explained how to order a SIGNALMAN VII smartmodem from them for about \$100. PRO/FILES was, and still may be for sale in many computer stores (\$3 and well worth it).



BUSINESS JOURNAL

A LISTING OF COMMERCIALY AVAILABLE SOFTWARE

Morrow is compiling a list of Morrow computer compatible commercially available software. We just received a preliminary copy in the mail for review. Apparently all dealers received a preliminary copy also. It looks like a very useful resource, neatly organized with most information you need to decide whether to get interested or not. In the back is a quite complete listing of micro software vendors. Even BAMDUA is listed there, because we sell a "Startup kit", which is a floppy loaded with goodies you need when you want to start a local users group. The book is about the size of the Pilot manual.

BAMDUA will receive a small number of copies of the book for distribution amongst members who are seriously interested in reviewing it and giving Morrow feedback.

If you want to be one of the chosen few, write BAMDUA, attn.: SOURCE BOOK. Include \$1 for postage and we will mail you a copy. Your name will be put on a list of volunteer reviewers, and given to Morrow. Will they throw a party? One never knows...

FEEDBACK ON THE OCTOBER BAMDUA NEWSLETTER

The following is a letter critiquing the last newsletter. Let's hear from more of you!

Freedom from the Status Line

Excellent! How pleasant to be able to consign the stupid line to well-deserved oblivion! I notice, however, that the sucker returns each time I turn off the computer.

What I would like is a program that boots up WordStar and automatically:

- 1) Sets the help level at 0.
- 2) Wipes out the status line.

There must be an easy way to do that. Isn't the quick boot covered in one of the BAMDUA library programs?

Tips on PIP

I read this with some care, and it seems well written, but I didn't see why I should be interested. I'd like to have had a few more lines on why this "very crude" test editor is useful for creating envelopes and labels. In fact, I still don't know how to print envelopes at all! (At this point, I do them by hand, while WordStar is printing my letter.)

Adventures with Modem7

This is very helpful, and your description of the 97K file is a perfect illustration of why some "protocols" are useful.

Since the "User's Guide" article on modems is so good, it should be more easily accessible. I called four libraries trying to track down the "Guide" before retrieving the one that had been lent to me. Getting Steve McMahon's PIP piece in PRO/FILES is probably as hard.

Would it be a hassle for the BAMDUA librarian to stock extra xeroxes of these pieces? I'm sure BAMDUA members would be happy to send a SASE plus a dollar bill for reprints; all the librarian would have to do is insert the article, and add the dollar to the xeroxing fund. (Editor's note: What do you think, readers? Is this a service people would like? Let us know.)

Piggy-Bank

At first, I thought this would be well worth my while, since:

- 1) I find waiting for the WS menus to cycle through an increasingly tedious process and;
- 2) As someone who does mainly word-processing, I would appreciate a way of reducing my dozens of floppies into a single manageable unit, and not have to be constantly switching them.

What wasn't clear from the article is:

- 1) Whether the Piggy-Bank actually does that for CP/M 2.2 users.
- 2) Or does "Back up everything from the RAMdisk..." actually mean that I have to re-transfer all those files back onto the floppies?

BCN

This is written in a misleading way. First, it gets my mouth watering about all the things BCN does, then it tells me I can't have it. It would be more honest to write it the other way around. It might also be useful to publish the BCN address in Wyoming, and encourage a few letters from BAMDUA members to push those folks to do a Morrow version.

File Transfer

A definite plus, and a coup for us if it does through. But before I buy, I want a list of the computers the system will work with. (In particular, since my/our friends have a

Kaypro and an Apple II, will it work with them?)

Editor's note: See the article, this issue, on UNIFORM.

General Comments on BAMDUA Library diskette 1

After making the backup copies for the Library, I decided to print out the .DOC files to see just what I'd gotten. Well, it was a bit confusing. Some documentation was quite complete, some terse to the point of incomprehension.

Since the Library is growing so fast, I think it would be helpful if there was an "Index" file created that would explain in greater detail:

- 1) What these programs do.
- 2) How to use them.

It would be nice if the "Index" were included with all volumes. That way, since I now have #1, I would have a better idea of what other volumes to get. The present one-line listing in the newsletter just isn't complete enough to be very helpful - especially to a non-computer whiz to whom "Test program for Z80 assemblers" isn't too revealing.

P.S.

After looking at the documentation on one of the Vol. 1 files, I got myself into a "Disk Full" situation, because I wanted to do some small bit of editing, and the disk was so full - it couldn't handle a .BAK version. Next time, I'll spread the files around...

A COMPUTERIZED BULLETIN BOARD SYSTEM FOR MORROW USERS

During a recent meeting, ED Niehaus of Morrow asked us what kind of assistance Morrow should give to the users group. We answered with two major suggestions:

- 1) A national newsletter for all Morrow owners.
- 2) A Morrow CBBS (Computerized Bulletin Board System).

These ideas may become a future reality. Here's how a CBBS would work.

If you have a modem you can call one of the many CBBSs, and scan the bulletin board. You can also post bulletin board messages, and send and receive electronic mail. (Electronic mail usually requires a password.)

A RCP/M is a remote CP/M system. These systems can also be contacted via your modem. Their main feature is free public domain software. After you read a few document files

from these systems, you can learn how to download (or transfer) useful files to your home system.

The most astounding aspect of these systems is they are a free public service maintained by Sysops (System Operators). See RCPM41.LST in one of BAMDUA's Library volumes for more info. Also read the article, "Downloading from RCPM Systems," in User's Guide to CP/M, issue 3, page 13.

The severest problem with these systems is they can only handle one call at a time and are often very busy.

Why a Morrow CBBS?

A CBBS would be a great asset for Morrow users. About a third of the membership has a modem and another third is planning to get one. A BAMDUA CBBS could be used to complement several of our already existing communication facilities: the meetings, especially the "Pass-the-Notepad" procedure, the newsletter and the mutual support phone list.

Password Possibility

Using the CBBS we could post questions and requests for help, items needed or for sale, tips and questions on good deals, etc.

Electronic mail could be added to the facility, which could eventually be developed into a RCPM system should the need arise.

To avoid clutter and to maintain good accessibility, the BAMDUA CBBS phone would not be publicized other than to BAMDUA members and we would use a password system. Problem # 1: BAMDUA cannot afford a CBBS.

Why not extend the idea of a BAMDUA CBBS to a national Morrow CBBS? Morrow Inc. would be the most fitting operator. Morrow engineers and technicians could be urged to answer thorny technical questions. From Morrow's point of view, this would be easier than a barrage of individual phone calls.

Answers would come from qualified people. Everyone in the world could learn from it. If you feel this is a good idea, drop both BAMDUA and Morrow (Ed Niehaus) a note with your suggestions.

BRAND X SUPPLIES AT A DISCOUNT

Our members are forever scrounging around for cheap supplies. This includes printer paper and floppies. BAMDUA cannot get involved directly in bulk purchases/sales. But members can. Below is a list of suppliers you can call. Often you get a better price when you order a large quantity. In

that case, get together with a few friends.

Floppies: Often sold in lots of 20, 25, 100 or 200. They come unsleeved, but sleeves are included. You put the diskettes in the sleeves yourself. Check that the write protect stickers are also included. The brand name is never printed on the jacket. Often the supplier gives a years' warranty; sometimes there is none at all.

Most suppliers only have Single Sided Double Density (SSDD) soft-sectored floppies. A few have Double Sided Double Density (DSDD) soft-sectored floppies. The latter ones are used in the MD-3. More and more suppliers say they will have DSDD floppies "next month," when they learn that half our membership has MD-3's. They catch on quick.

What you should know about our kind of floppies is this: All are created equal, but they don't turn out that way. They are manufactured in the hope they will qualify as DSDD. Then they are tested. Some don't make the grade but have at least one good surface: they are sold as SSDD. That also means you could use SSDD in your MD-3 BUT IT IS NOT RECOMMENDED: the risk of a bad spot on the surface is high.

Prices for SSDD floppies with separate sleeves range from \$1.10 to \$1.75 without tax or shipping. Ask the supplier how the floppies were tested, who the original manufacturer is, how you can pay for it, how they are shipped, and how long for delivery. You pay your money and take your chances. Now here follows the list. Good luck!

ALF Products Inc. (303) 234-0871
1315F Nelson Street, Denver, CO 80215 (no tax)

Digital Distributors (408) 423-1556
P.O. Box 8427, Santa Cruz, CA 95061

Forrest Batz (415) 581-4863
21151 Nunes Ave., Castro Valley, CA 94546

Holmes & Co. (408) 971-9100
1425 Calaveras Ave., San Jose, CA 95126

Just Disks! (408) 379-8042
P.O. Box 753, Campbell, CA 95008

Mark James Enterprises (415) 459-8866
817 A Fourth Street, San Rafael, CA 94901

Mercator Corporation (408) 264-2309
1157 Clark Way, San Jose, CA 95118

Printer paper: Ask for the the weight of the paper (15, 18, 20 lbs. This refers to paper-thickness), number of sheets in one box, "clear perf" or not, delivery and payment conditions. "Clear perf" means that the strips with the holes

for your tractor feed come off easier and cleaner.

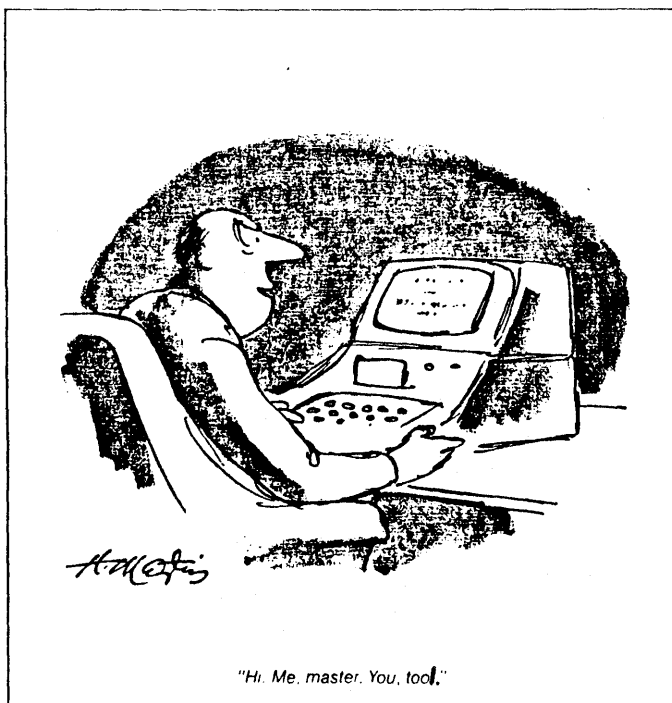
Arvey Paper & Supplies (415) 839-8863
229 Castro Street, Oakland, CA 94607

Arvey Paper & Supplies (415) 863-3664
2275 Alameda, San Francisco, CA 94103

Arvey Paper & Supplies (408) 288-9280
1381 North 10th Street, San Jose, CA 95112

Dynamic Forms (408) 972-0100
5335 Pebbletree Way, San Jose, CA 95111

Tell the suppliers that you are from a micro-computer users group, or just say: "BAMDUA!" and watch them perk their ears! Happy hunting.



128 OMNI

PASS THE NOTEPAD

The following are the Pass the Notepad entries from our October meeting. Some of the questions were answered (on the pad) at the meeting. They are printed here.

Due to space constraints, not every question could be printed this time around. We will get to your question in future issues!

If you have a solution to any of the following, please send it to BANDUA, P.O. Box 5152, Berkeley, CA 94805. We will reprint it so everyone can benefit from the information. Phone numbers are included for the questionees. You may want to give a personal response.



1. Q: When using a PROWRITER PRINTER and MBASIC Program in proportional spacing - is there a way to switch print specs without having to turn the printer off when the RTN instruction does not appear to work? Robert Spotorno, 586-6280
2. Q: When installing a printer in WordStar is the C-ITOH-STARWRITER option applicable (and work) for the C-ITOH-PRINTMASTER? John Pinelli, 666-6778
3. Q: Three of us are real novices at CP/M. We could basically use some down-to-earth help. Bob Hewitt, 449-4283. Sam Jones, Joy Jones, 443-4166
- A: If enough people are interested, we'll set up a "Beginner's class." How does two hours, \$10 per person sound to you? Probably East Bay, on a one-meeting-at-a-time basis. Call Sypko Andreae at 658-0152.
4. Q: Does WordStar print proportional spacing with a daisy printer? I have a Morrow MP 200. David, 531-6541
- A: Yes, call Steve Wartofsky, 841-3709.
5. Q: I've had the peculiar problem of not being able to find extra printwheels for the MP200 that are compatible in the letter arrangement. Steve Wartofsky, 841-3709.

- A: Priority One in Southern California has the right print wheels.
6. Q: I'm having trouble enabling WordStar to do superscript and subscript on my IDS Microprism 480. Following the instructions in the manual doesn't do it. (Writing unclear.) Any suggestions? Allan Mines, 666-2882 or 479-0351
7. Q: I have an IDS Paper Tiger dot matrix printer which can't handle 'S or 'D in WS files. Is there a way to install WS so it won't send these control characters to the printer? Charley Tart, 526-2591
8. Q: I want to buy an MD3 with a Daisywheel Printer. Know anyone who either wants to sell or knows where I can get one cheap? Stan Naparst, 527-3156
- A: Place a classified ad in our newsletter. Classifieds will be free to members only until the end of the year.
9. Q: Has anyone had success with the Home Accountant (Osborne format) program? If not, share problems. Don Cousins, 573- 7492
10. Q: Who knows how to set up the special function keys of the FREEDOM 100 terminal (with MD-3 and Gemini 10). C. Quibble, (707) 664-2189
- A: I can do it for FREEDOM 50 with SMARTKEY. M.Hallet, 398-5438
- A: They are not programmable - they are pre-programmed. But I have heard a program called SOFTKEY will allow them to be changed.
11. Q: How can one use the editing facilities of FIGFORTH (on library disc 5)? R. Solovay, 654-3047
12. Q: How do you dump everything on the screen to memory and disk for later perusal when talking to a computer bulletin board.T. Dill, (408) 287-2961
- A: Use MODEM7 command: T FILE.NAM. Then CNTRL Y. All you see on screen now goes in memory. When you're done, CTRL E. Then use command WRT which writes memory to FILE.NAM. Sypko, 658-0152

13. Q: Has anyone been successful in getting KERMIT (as distributed by UC Berkeley) to run on an MD-2? Dennis, 527-7893
- A: Several people (Gene Korte, Frank (?) are working on it. Sypko, 658-0152 ^{OECUSLI}
14. Q: WordStar - how can you go directly to a page number in a test file if you don't have a marker set there? Any way to modify CORRECT-IT so it will ignore soft hyphens in words and check them properly? Is there an easy way with CORRECT-IT to find the words marked with # in the WS file so you can take out the # marks? Charley Tart, 526-2591
- A: On the last part of your question, do a 'QF or a 'QA with WordStar. Lenore Weiss, 261-7492.
15. Q: Can you stop or cut out the printer stop switch when using cut (?) paper in letter writing? I want to be able to print the whole page without having to insert more paper in the printer. David Oku, 961-2434
16. Q: Where can I buy ASCII printwheels for my Daisywriter that will match the keyboard of the MD-2? Dorothy Mehrten, 357-7455
17. Q: Questions on the MD-11. How is the hard disk best backed up? Is the MD-11 floppy single sided or double sided?
- A: Morrow has included a special backup program for the MD-11 called BACKFIELD. There are five different parts to it: FULLBACK, QUARTERBACK, HALFBACK and RESTORE and SELECT options. This backup program is designed to handle large files (more than one floppy's worth or 384K). There are distribution disks which come with the system along with all the pre-recorded programs on the hard disk. The distribution disks are DS.
Lenore Weiss, 261-7492
18. Q: Is the LABELS program on Vo. #6 limited to making copies of a single label, or can one easily alter it to handle an address list? Dorothy Mehrten, 357-7455.

A: Yes, it is limited to the single label text (6 lines) you previously entered in the program. Then you can make 0 or 1 or more copies of that same label. For address list label generation use a data base like Personal Pearl. Sytko Andreae, 658-0152.

19. Q: How can I get my printer to print WordStar text files continuously, instead of stopping at the end of each page, when I have not chosen the "pause for paper change" option? Dorothy Mehrten, 357-7455.

A: I guess you have a Daisywriter. If so, then the problem is probably not with WordStar but in the setting of the Daisywriter dip-switches on the front panel. The switch T1 should be ON (=UP) for continuous paper use. If you still have problems, try creating a WS output file first. Now you have a pure ASCII file, all formatted. Print it out and see what happens. Let us know! Sytko Andreae, 658-0152.

20. Q: What can I do (in WS) to get a group of words at the top of a series of different letters without re-typing that heading over and over again? Lily Pond, 524-4468.

A: Make a little file that only has this header in it. When you start composing a new letter that should have your standard heading, being with 'KR; WS will ask you for the file to read and copy into your letter file. Sytko Andreae, 658-0152.

THE MAILBOX

* BAMDUA *
* P.O. Box 5152 *
* Berkeley, CA 94805 *

My wife and I attended the September 27 meeting and enjoyed getting the information presented and getting to talk to some of the MORROW users.

I've a couple of pieces of info that might be included in the next Newsletter, announced at the next meeting, or whatever.

At the meeting, the special function keys were mentioned with the statement being made that they are useless at the present. I happened to visit NYCOM in Mountain View a couple of days later and one of the salespeople told me about a

program that will "automate many of the most-used WordStar functions by making them single keystrokes." Works on a number of different terminals including the FREEDOM 100 and 50 and some TELEVIDEO ones. The program is called MICRO KEYS, retailed for \$49.95 and is sold by FIRST PRINCIPLES SOFTWARE CO., P.O. Box 4236, Santa Rosa, CA. 95402 (707) 584-0321.

Also while at NYCOM I enquired about QUEST, the accounting package that Morrow has been selling with their special on the MD3. NYCOM has already made enquiries to Quest about getting some programs to sell as a separate item. I was told that NYCOM determined that all of the Quest accounting packages were being sold to Morrow at the moment and there were no others available. The NYCOM salesman suggested that BAMDUA might be able to contact Morrow and get some packages that they could sell to members. It certainly would be worth a check.

L.E. Dreyfous
Los Altos, CA.

MINI REVIEW OF SMARTKEY II (FOR THE FREEDOM 50 TERMINAL)

I have recently received my copy of SMARTKEY II and have started to use it. This program allows me to define almost any key on my FREEDOM 50 keyboard. The manual is clear and concise and even easy to use for reference. Here's the story.

My wife wanted the arrow keys to actually run the cursor. Now they do.

These keys generally send codes such as CTRL V and, worse, CTRL K which WordStar uses for important functions. Once these codes are redefined as cursor controls, the poor machine can't tell if the CTRL K it received came from the two keys meaning:

"I want to see the Block Menu;"

or from the Arrow key meaning:

"I just want to move the cursor up."

The cursor arrow rises and I can't save my file. However, once you define the function keys, everything works fine. This is because the program is "non-recursive." That is, once you define CTRL K commands elsewhere, WordStar will be content that they are coming from one and only one place.

Defining Function Keys

My function keys are defined to replace those commands:

- 1) F1 turns insert on and off.
- 2) F2 turns justification on and off.
- 3) F3 sends CTRL KD and saves my file.
- 4) F4 sends just CTRL K so I can get to the rest of the Block Menu.
- 5) F5 sends CTRL L, find and replace, which I'm not yet using but will eventually need.

If you're using WordStar without something like SmartKey, the up arrow will get you the Block Menu (CTRL K), the down arrow will get you help (CTRL J), the back arrow sends CTRL H which gets you what you'd expect. Finally, the right arrow will "find and replace" (CTRL L) which is down right frightening if you aren't ready and haven't saved your file lately.

Defining Supershift Characters

SmartKey will also define "supershift" characters of your choice. You can then type this character followed by any key and get whatever canned command, phrase or paragraph you have stored at that address.

I've defined "supershift" (the back slash, which my printer won't produce and I don't need since I'm not programming in "C"), followed by "?" to get me WordStar's help function which I lost when I defined the down arrow as "down".

I have defined the "supershifted" arrows for scrolling a screen at a time since I think WordStar has that backwards anyway. "Screen up" moves your window DOWN and vice-versa. My supershifted arrows do what I expect. Incidentally, I tried to define normally shifted arrows to do this, as they do on the Epson QX-10, and had problems. I wrote to Heritage Software Inc. and I'll share in the future what I learn, if it's not just plain embarrassing.

SmartKey uses the bell as a prompt which is tiresome so I deactivate it. (See the October newsletter for how.) Does anyone know how to do the same for the FREEDOM 50 so I can boot up the system without all those beeps?

So far I'm pleased with SmartKey II. I got it from my dealer, but it's distributed by Heritage Software Inc., 2130 Vermont Avenue, Los Angeles, CA. 90007. There's also the original SmartKey (cheaper) and several other programs which do similar things.

The SmartKey manual repeats what someone said at the September meeting: it doesn't work on the Lear-Seigler 31 terminal.

Documentation Notes

The manual does a good overall job. It falls down on a program they provide called FBNSUB.COM. This is offered to replace XSUB.COM, the extended "Submit" program that comes with CP/M and, they say, tends to mess up SmartKey. They essentially sent me back to Digital Research's manual which came with the Morrow, and, on this point, gave a newcomer like me only hints.

They also include D.COM which is like XDIR - Directory in alphabetical order plus file statistics and space left on the disk in a compact format that fits on one screen. (This paragraph can be omitted if you use this.)

DEALERS SUPPORT (OR THE LACK OF IT)

To whom do you go for support? Morrow Inc. cannot handle direct customer support. Dealers are supposed to provide

this service. The dealers, in turn, go to Morrow to get their support. But what are you as an end-user supposed to do when this support structure doesn't function satisfactorily or, worse, simply falls apart?



Dealers are supposed to support customers who bought equipment from their shop. But if you bought your system somewhere else, several dealers are already known to tell YOU to go somewhere else. In the long run, this may someday ruin their business with excellent user groups like BAMDUA spreading the word.

Point in case: If you just bought equipment from a well known store in San Francisco that recently has been shut down by the IRS, you can refer to several dealers who have made it clear that they will receive you with open arms. We called Morrow. The result is dealer-list at the end of this article.

When Your Dealer has Gone with the Wind

When you have problems and you cannot get help from your dealer or your dealer is gone with the wind:

1. Call BAMDUA 658-0152, Leave a message with your name, phone number, nature of your problem, city you live,

dealer you were dealing with.

2. Talk to the dealers listed below. Unless you find their patience and time resources infinitely abundant, don't bother them with the common operational or beginners questions. Instead:
3. Use the BAMDUA meeting, question-notepad, newsletter or the newly emerging "Novice Emergency Class." You can also try the Network list which is updated and printed in the newsletter, but don't expect to find too many helpful experts. Most of them are novices like most of the membership.
4. Fancy training with matching prices is available all over the Bay Area. To find out about it check Computer Classifieds for starters.

Dealers with open arms and open minds as recently established by Morrow are:

INTELLITRONICS COMPUTERS 346-5600
1779 Lombard Street, San Francisco, CA 94123

WORLD BUSINESS CENTER 941-3269
12186 Winton Way, Los Altos Hills, CA 94022

COMPUTER HOUSE 453-0865.
722 B Street, San Rafael, CA 94901

POWERS COMPUTERS 234-5412
12491 San Pablo Ave. Richmond, CA 94805

Many dealers would like to but can't help out Morrow owners who need to switch to a different dealer, because they already suffer from service backlogs as it is. But one dealer:

SUNSET COMPUTERS 753-1040
2329 Irving Street, San Francisco, CA 94122

provides classes and training for all who need it at what they say are very reasonable prices. Check 'm out.

The BAMDUA newsletter would like to hear from you if this list is of any help. Share your experiences with us so we may all benefit.

=====

TO ERR IS HUMAN --- TO REALLY FOUL THINGS UP REQUIRES THE USE
OF A COMPUTER.

=====

NOVICE TIPS ON THE DISK UTILITY "DU"

DU is a Disk Utility program and can be found on volume # 2 of the BAMDUA Software library. As with so many utilities the documentation (DU.DOC) is incomprehensible.

Here's yet another contribution to help out.

What is DU? DU is a program that allows you to examine and modify any part of your disk, as long as you run CP/M version 2.0 or later. For an excellent article on DU read the article "A reference guide to DU" in the magazine USERS GUIDE TO CP/M, issue # 4, page 53 (P.O. Box 3050, Stanford, CA 94305).

What to do with DU

Why would you want to fuss with DU? Well, perhaps you find yourself one day bold enough to explore Morrow's disk format. Or you received a file from a foreign computer or from a foreign word processor. The file does strange things to your word processor, your printer, what not. You suspect the file has certain control characters (invisible to TYPE, READ or even WordStar) that raise the havoc.

Now, if you could discover what they were, perhaps WordStar or another editor program or a specially written "filter" program can be trained to get rid of those unwanted characters, or modify them into something harmless.

Another example. Something went wrong on your disk. The directory has lost its integrity. Say a file was accidentally erased (and UNERASE won't help you). The data on the disk is so valuable you decide it's worth your while to repair the information on the disk. You want to correct the value of some offensive bytes on the disk. This is tricky and you better know what you are doing. You'll need DU.

The scope of this article is modest and is merely intended to get you safely going on a first exploration. DU has a help menu. After you start DU and you enter ? you will get a list of what it can do. From that list, and the documentation, track down the "dangerous" (disk modifying) commands. Stay away from 'em.

Make a copy of the disk you want to explore and explore on that copy only for starters, just in case you make a goof. Put a SYSGENed disk with DU in A: and put the copy to be explored in B:

Operating DU

Below is a copy of what you would see on your screen in a typical conversation with DU. First we tell DU to log on disk B: (LB), where we know the file DU.DOC resides.

A>DU

DISK UTILITY ver 7.8
Universal Version

Type ? for help
Type X to quit
:

Then we command DU to Find DU.DOC (FDU.DOC). Three lines are displayed by DU. The first two lines are a byte-by-byte display of the directory entry for file DU.COM.

```
:FDU.DOC
00 00445520 20202020 20444F43 0000002D *.DU      DOC....*
10 02030400 00000000 00000000 00000000 *.....*
G=00:00, T=2, S=1, PS=1
```

The information is dumped in pairs of numbers. Each number is represented in the hexadecimal number system. This is a number system with a base-16, rather than the familiar decimal system which uses base-10. It is a system where decimal 0-9 is 0-9 in HEX and decimal 10-15 is A-F in HEX.

A HEX Upon All Your Numbers

Each byte is dumped as two HEX numbers. For instance, the character D is 44(hex) and U is 55(hex). Wherever DU is able, it will print an ASCII representation of the hex-coded bytes in the right-hand section of each line. If it is unable to, it prints a period. The asterisks mark the beginning and the end of the ASCII string.

Back to the two-line directory entry. The first part shows the file name DU.DOC. The second line contains a group of hex-numbers (02 03 04) that indicate where on the disk the actual contents of the file DU.DOC can be found. Now, if you would like to inspect the first part of file DU.COM in a way that will reveal every byte, ASCII or no, tell DU to go to GROUP 02.

```
:G02
G=02:00, T=2, S=33, PS=17
```

DU will then tell you that it is pointing to a certain spot on the disk: GROUP 02(hex), which is on TRACK 2(dec), starting at SECTOR 33(dec). The TRACK and SECTOR number are not so important at this point. After you give DU a dump command (D) it spits out the first sector (= 128 bytes) of file DU.COM.


```

:D
00 0D0A0909 20202020 2044552D 5637372E *.... DU-V77.*
10 444F430D 0A092020 20202020 20206279 *DOC... by*
20 20576172 64204368 72697374 656E7365 * Ward Christense*
30 6E0D0A20 20776974 68206164 64697469 *n.. with additi*
40 6F6E616C 206E6F74 65732062 7920526F *onal notes by Ro*
50 6E20466F 776C6572 20616E64 204B6569 *n Fowler and Kei*
60 74682050 65746572 73656E0D 0A090920 *th Petersen.... *
70 28726576 69736564 20372F32 332F3831 *(revised 7/23/81*

```

Notice that after "Ward Christensen," DU was unable to print the two following bytes as characters. It showed those as periods. Those two bytes have HEX-values OD and OA, which stand for RETURN and LINEFEED. Unprintable characters indeed!

If you are ready to inspect the next sector of 128 bytes of file DU.DOC, tell DU to point to the next sector with the command + .

```

:+
G=02:01, T=2, S=34, PS=18

```

```

:D
00 290D0A0D 0A09484F 5720544F 20555345 *).....HOW TO USE*
10 20445520 76657220 372E3720 4449534B * DU ver 7.7 DISK*
20 20555449 4C495459 0D0A0D0A 494E5354 * UTILITY....INST*
30 414C4C41 54494F4E 3A0D0A09 54686520 *ALLATION:...The *
40 372E3020 616E6420 6C617465 72207665 *7.0 and later ve*
50 7273696F 6E73206F 66204455 20617265 *rsions of DU are*
60 20646573 69676E65 6420746F 0D0A2020 * designed to.. *
70 62652069 6E737461 6C6C6564 20776974 *be installed wit*

```

Now you are ready to sleuth for your own "unprintables." You will probably need a table with columns for ASCII characters, their HEX value and what you do to enter them from the keyboard (if possible). One excellent table can be found in the book **MASTERING CP/M** by Alan R. Miller, Appendix A. Another one is in the **FREEDOM 100** manual, page 30.

A Case Study

The following case study will make DU's purpose clear:

I once called the Electronic Bulletin Board OMEGA 60 (in Oakland 452-0350) and captured the entire conversation. It was stored in a file using the "T FILENAME.CBB" command of MODEM7.

(continued page 26)

TELL A FRIEND!!!!!!

Tell a friend about the spectacular deal you can get at Berkeley Computer!!! If your friend buys a Morrow MicroDecision 3 between now and Christmas he/she will receive a complete workcenter/desk for free!!! and you will receive a \$50 gift certificate as your Christmas present from us,

or

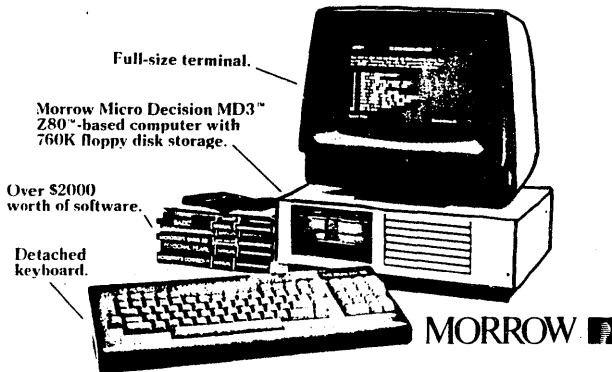
If your friend prefers a complete system tell him/her to look at the GRADUATE SPECIAL - Includes KayproII or Morrow MD2, letter quality printer, 90 day phone support, training, starter kit of 10 disks, 2 printer ribbons, 2900 sheets of paper, and (whew!) the Footnote Program. In either case, if your friend buys it from Berkeley Computer you get \$50!!! Hurry and don't wait! only 22 more shopping days until Christmas.

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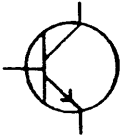
1569 Solano Ave., Berkeley, CA 94707

(415) 526-5600

MORROW 



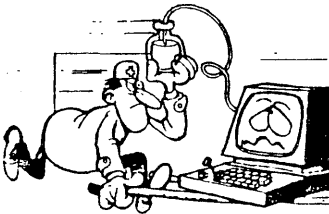
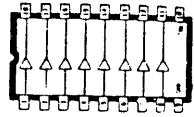
Coming Workshops: Jan. 14th in Redding, CA;
Jan 21th San Jose, CA; Feb 4th Concord, CA.



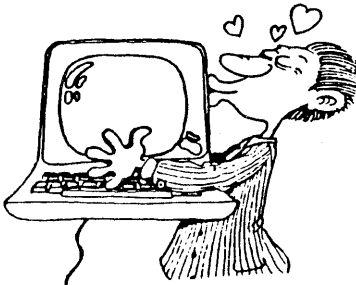
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ALAMO, CA 94507
TEL: (415) 837-2895

DICK CASCIO
DIRECTOR

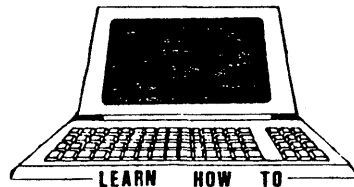
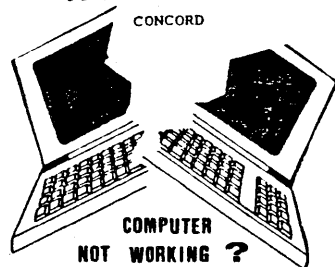


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Coming Workshops: Jan. 14th in Redding, CA;
Jan 21th San Jose, CA; Feb 4th Concord, CA.

When I printed the file my printer went wild. It printed oversize characters which overflowed each line, etc. I took note at what point in the file this happened. Using DU I noticed that the unprintable character with HEX value iF was the trouble-maker. My printer manual told me that iF (entered as CNTL/_ or ^_) is the "Print oversized characters"-command for my printer. Good, now I understood the trouble. How to get rid of all those iFs?

First I tried to see if WordStar could help me. I was in luck. In WordStar ^_ is used for the soft hyphen. Then I asked WordStar to all soft hyphens and replace them with @, to mark the locations in the file where the offending iF characters had been. The WordStar commands were:

```
^QE
^QA (replace - with @ )
options? GN
```

That purged all the undesirable iF bytes from the file and I could print it in a readable form.

Are you still wondering what GROUPS, SECTORS and TRACKS are all about? That will be the subject of another article in the future. For now, have fun exploring with DU.

MD-11 HAS COME TO TOWN

The MD-11 hard disk Micro Decision is here! It has 128KB RAM, 8KB ROM and a 11MB hard disk plus a 384KB floppy drive. Z80 CPU running at 4.0 MHz. One Centronix parallel port, two RS232C serial ports. A third port can be either used as RS232C or as RS422. The latter feature is highspeed serial synchronous. Screen is 12" P31 (green phosphor), non glare, 80 characters by 24 lines, with 128 displayable ASCII characters, 9 foreign characters and 64 graphic characters in a 9X12 matrix (that's good!). Keyboard has 91 keys, detachable, 6 feet coil cord. The MDT60 terminal function keys (9) are user definable when used with MD-11 and Morrow software.

Software runs under CP/M 3.0 (that is CP/M Plus): New Word (WordStar compatible) word processor, Correct-It, LogiCalc, Personal Pearl, Quest Bookkeeper, MBasic, BaZic, Pilot. It comes with the Menu Driven Front End to protect you from getting too close to CP/M if that is not your cup of tea. Utilities are included to write/read foreign formats like MD-2, Osborne single and double density, Kaypro (which one?), Xerox 820 and IBM P.C. CP/M 86.

Reputedly the MD-11 hard disk access is 30% faster than the Kaypro 10, another Hard disk machine.

Prices are quoted as \$2200 without and \$2745 with terminal. Rumours have it that you can get one in January '84. Check with your dealer or your favourite mail-order house.

Morrow is currently developing a 16 bit micro based on the 8088 processor and also an 8 bit portable weighing a mere 23 lbs with a 5 X 9" screen. Take your pick.

Bit of news (obviously not from Morrow): IBM-PC compatibility for your Morrow is available. Budget Information Systems in Minnesota (ask for D. Scott Secor) developed an 8088 (IBM-PC type) co-processor board for the Morrow. \$895 for the 128KB RAM version. User group members enjoy discounts under certain conditions. Source of news: Stan Anhalt, 102-B Victoria Lane, Clemson, SC 29631.

*** CLASSIFIEDS ***

You too can place your free CLASSIFIED AD in the BAMDUA newsletter. Only for members of BAMDUA and (at least for the remainder of this year) it is FREE! Maximum 3 lines with your name and phone number. Deadline the 10th of the month.

BUSINESS OPPORTUNITY

You can make money as an independent distributor for a new company, "Freedom Won". This company is located in the San Francisco area. It features home computers, personal computers, peripherals, software, and other electronic products. No fees are required during an introductory period. No inventory is required, and products are warehoused locally.

Spare time can be utilized. No experience is required. Training will be provided. For further information contact Ken Briney, (415) 376-3630.

UPDATED NETWORK LIST

This is an updated "mutual support network" list. It is a list of people who have agreed to make their names and telephone numbers available to the readers of the BAMDUA newsletter. All other information in the BAMDUA membership database is confidential and unavailable except to officers of BAMDUA.

People on this list are not necessarily experts. Anyone can use the list to get help with technical matters, to organize rides to meetings, etc. If you want to have your name and phone number added to the list write to BAMDUA.

Network list, last update 3-Nov-83:

(415) 524-4751 * Alice Abarbanel, Berkeley, CA 94707
 (415) 355-8052 * Harriet Ashley, Pacifica, CA 94044
 (415) 834-1387 * Felix Aycock, Oakland, CA 94610
 (415) 447-3568 * Al Beechick, Livermore, CA 94550
 (415) 524-0599 * Brent & Elois Ann Berlin, El Cerrito, CA 94530
 (415) 666-5251 * Dennis Black, San Francisco, CA 94102
 (415) 567-3127 * Theodore M. Blum, San Francisco, CA 94123
 (916) 944-4653 * Martin Brett, Carmichael, CA 95608
 (415) 561-2016 * Robert Brower, San Francisco, CA 94114
 (415) 527-4253 * Daniel Brower, Berkeley, CA 94707
 (415) 383-3222 * Virginia Brunini, Tiburon, CA 94920
 (415) 527-7432 * Arthur W. Callender, Kensington, CA 94707
 (415) 525-7464 * Peter Campbell, Albany, CA 94706
 (209) 835-4187 * Charlie W. Canon, Tracy, CA 95376
 (415) 791-5062 * Kevin Carpenter, Newark, CA 94560
 (415) 531-6541 * David Chaika, Oakland, CA 94602
 (415) 581-4862 * Carl Chan, Hayward, CA 94541
 (415) 887-2973 * Mike Collins, San Lorenzo, CA 94580
 (415) 483-6358 * Hector Conde, San Leandro, CA 94577
 (415) 652-0453 * Lanny Cotler, Berkeley, CA 94701
 (415) 573-7492 * Donald L. Cousins, Foster City, CA 94404
 (707) 523-3375 * Alan B. Cruse, Santa Rosa, CA 95405
 (408) 287-2961 * Terri Dill, San Jose, CA 95125
 (415) 381-0519 * Steve Edgett, Mill Valley, CA 94941
 (415) 524-4319 * Ismail Fattah, Albany, CA 94710
 (415) 550-1183 * Arnold Feldman, San Francisco, CA 94109
 (415) 845-5749 * Benjamin P. Fisher, Berkeley, CA 94708
 (415) 878-9153 * Edward Golod, Daly City, CA 94015
 (415) 849-0380 * Rob Goodman, Berkeley, CA 94703
 (707) 539-7808 * Morton Gray, Santa Rosa, CA 95402
 (415) 655-7982 * Herman H. Howerton, Berkeley, CA 94705
 (415) 540-5373 * Ryo Imamura, Berkeley, CA 94704
 (415) 530-1170 * Allyson Johnson, San Leandro, CA 94577
 (415) 826-0367 * Abigail Johnston, San Francisco, CA 94107
 (415) 821-3339 * Ray Kastl, San Francisco, CA 94101
 (415) 653-7199 * Alan Kornfeld, San Francisco, CA 94133
 (415) 525-8344 * Eugene Korte, El Cerrito, CA 94530
 (415) 548-4003 * Nelson Laance, San Francisco, CA 94131
 (415) 334-3294 * Hoover Liddell, San Francisco, CA 94112
 (415) 922-3912 * Manfred Mackeben, San Francisco, CA 94115
 (415) 531-3574 * Minnie Mast, Oakland, CA 94602
 (415) 345-8684 * Bill McCord, Foster City, CA 94404
 (415) 966-8282 * John Mensick, Mountain View, CA 94040
 (415) 656-6238 * Larry Milnes, Fremont, CA 94539
 (415) 479-0351 * Allan H. Mines, San Rafael, CA 94903
 (415) 821-4477 * Murray Mintz, San Francisco, CA 94110
 (415) 821-4965 * Bud Mohr, San Francisco, CA 94114
 (415) 441-8082 * Joan Nelson, San Francisco, CA 94109
 (415) 428-9460 * Steve Organek, Oakland, CA 94601
 (415) 881-3433 * Tom Palmer, Pleasant Hill, CA 94523
 (408) 252-1236 * Arthur W. Pearce, Cupertino, CA 95014
 (408) 226-9050 * Joe Pilsodski, San Jose, CA 95121
 (415) 841-6500 * Lily Pond, Albany, CA 94706
 (415) 776-6705 * Dan Robinson, San Francisco, CA 94109

(415) 526-4356 * Carla Z. Rosenlicht, Berkeley, CA 94708
 (415) 851-7241 * David Rosner, Woodside, CA 94062
 (415) 438-0662 * C.W. Russell, Scotts Valley, CA 95066
 (415) 456-2383 * John Salz, Ross, CA 94957
 (415) 783-2263 * Mack Sills, Hayward, CA 75451
 (415) 841-0997 * Robert Silvey, Berkeley, CA 94709
 (415) 763-7369 * D. Wayne Smith, Oakland, CA 94606
 (415) 994-2529 * Constantin Sofis, Daly City, CA 94015
 (415) 654-3047 * Robert Solovay, Oakland, CA 94618
 (415) 341-6949 * Lloyd Spitz, San Mateo, CA 94403
 (415) 665-4368 * Sherry Spitzer, San Francisco, CA 94122
 (415) 586-6280 * Robert G. Spotorno, San Francisco, CA 94101
 (415) 346-8036 * Mitchell Tannenbaum, San Francisco, CA 94108
 (415) 878-4914 * Kathy Uhl, San Francisco, CA 94121
 (209) 477-7896 * Patricia R. Voss, Stockton, CA 95209
 (415) 841-3709 * Steven Wartofsky, Berkeley, CA 94704
 (415) 935-7315 * Eileen Wilson, Walnut Creek, CA 94598
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FROM THE TREASURER

Treasurer's Preliminary Report to November 10, 1983:

Income: \$2,292.00

Expense: \$1,551.43

Balance on Hand: \$1,135.68

Any questions?

WHERE DO WE ALL LIVE?

Below is a breakdown of the current membership in seven areas listed by city. We generated this list to see what the most practical BAMDUA monthly meeting locations are.

You can use this information to decide whether a local area meeting would be worthwhile. If you want to get a local meeting started write BAMDUA and announce location, date and time and name and phone number of the person who will chair the meeting. We will make sure that it will get in the next BAMDUA newsletter. Remember, this is a service for BAMDUA members only.

When it becomes feasible to start a separate local users group we will give the initiators a hand in getting started.

Area 1: San Francisco 80
> Burlingame(1) Daly City(2) Pacifica(1)
> Redw. City(1) San Bruno(4) San Mateo(3)
> San Francisco(66) So. San Franc.(1) Woodside(1)

Area 2: East Bay 78
> Alameda(4) Albany(5) Berkeley(30)
> Castro Valley(1) El Cerrito(5) Hayward(6)
> Kensington(2) Oakland(15) Richmond(3)
> San Leandro(4) San Lorenzo(3)

Area 3: San Jose/South Bay 36
> Ben Lomond(1) Cupertino(1) Fremont(6)
> Foster City(4) Los Altos(5) Menlo Park(3)
> Mountain View(2) Newark(1) Palo Alto(2)
> San Jose(9) Scott Valley(1) Sunnyvale(1)

Area 4: Marin 18
> Belvedere(2) Corte Madera(1) Greenbrae(1)
> Kentfield(1) Larkspur(1) Mill Valley(2)
> Novato(1) Ross(1) San Anselmo(1)
> San Rafael(2) Sausalito(4) Tiburon(1)

Area 5: North and East of East Bay 17
> Concord(3) Fairfield(1) Livermore(3)
> Moraga(2) Napa(1) Pleasant Hill(2)
> Vallejo(1) Walnut Creek(4)

Area 6: Other California			15
> Carmichael(1)	Cazadero(1)	Davis(3)	
> Modesto(1)	Petaluma(1)	Rhonert Park(1)	
> Roseville(1)	San Diego(1)	Santa Rosa(2)	
> Stockton(2)	Tracy(1)		
Area 7: Outside California			7
> Bozeman, MT (1)	Canada (2)	Golden, CO (1)	
> Kansas City (1)	Orange, CT (1)	Saint Louis, MO (1)	

HOW TO LIVE AND LOVE THE BAMDUA SOFTWARE LIBRARY

The BAMDUA software library is a growing collection of mainly public domain software. A few programs are copyrighted but may be copied under the condition that the programs will not be sold or used in any profit making venture.

The BAMDUA library is distributed on SSDD soft-sectored 5.25" diskettes. This standard is maintained so all our machines can read them. If you have an MD-3 you can use the CP/M utility PIP to transfer files from the Library volumes to your desired DSDD diskettes. Distribution takes place at the meetings (\$5 per volume) or through the mail (\$7 per volume). See order forms in this newsletter.

DISCLAIMER: The quality of the software on the volumes is a truly mixed bag. On the other hand: Each diskette is loaded with so many items that the few true gems you will discover will be well worth the little money you paid. Some programs are excellent, some run poorly or not at all. Some of the documentation is very good, most of it is poor or non-existent. We have little quality control. Some of the software has been tried out; some has been copied from other libraries with undetected problems in the transfer. Therefore, there are no guarantees that the software will work the way you hope. Some programs are experimental and could yield unpredictable results, both with your machine and the state of your mental health. **USE THE PROGRAMS AT YOUR OWN RISK!**

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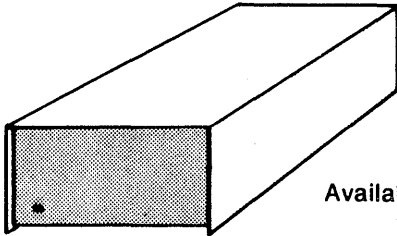
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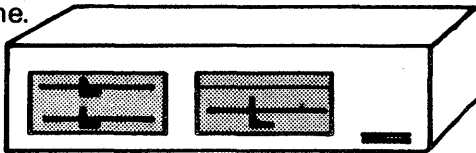
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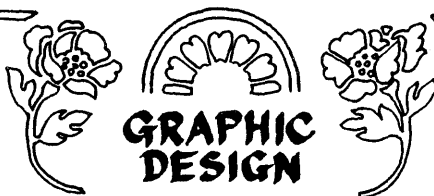
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